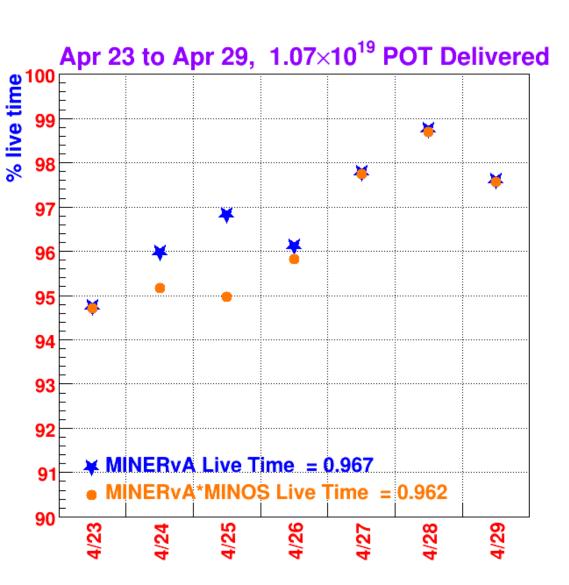
The MINERvA Operations Report All Experimenters Meeting

Howard Budd, University of Rochester May 4, 2015



v Data





- Live time, 4/23-29, 2015
- 1.07×10¹⁹ POT
- MINERVA 96.7%
- MINERvA*MINOS 96.2%



v Data



- Apr 23 26, 96% live
 - We saw this message on runcontrol:
 - "At least one of the monitoring nodes has become unresponsive".
 - The DAQ would hang trying to start the next subrun, and the shifter would have to run the "restart DAQ" script to get the DAQ running. This was happening a lot during this period of time.
 - The monitoring node is mnvonlinelogger ("Logger").
 - The NTP configuration on Logger did not specify a NTP server to use.
 - Around March 9 the clock on Logger was about 45 seconds behind real time. The time on Logger was updated to be correct.



v Data

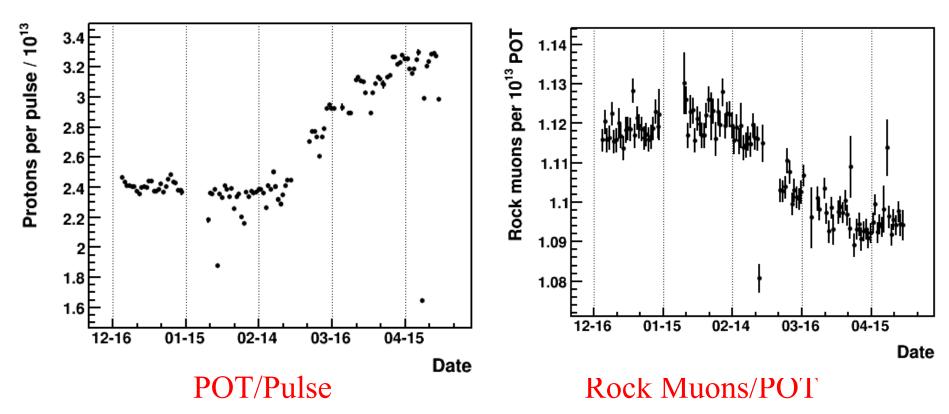


- We don't know whether the time on Logger was off, but on Apr 27 Logger was synchronized to the same NTP server that the DAQ machine is synchronized to.
 - We have not seen the same error message since then, so this was possibly the problem.
- It is possible that for Apr 24-26, some of the inefficiency was due to a small number of files not being analyzed in "keepup". Although it is clear we needed to run the "restart DAQ" script a lot, these down times were not showing up in our upTime plot. This means the down times were fairly short, as the shifter got the DAQ working quickly.
- We will present Apr 24-26 again next week.



Rock Muons/POT





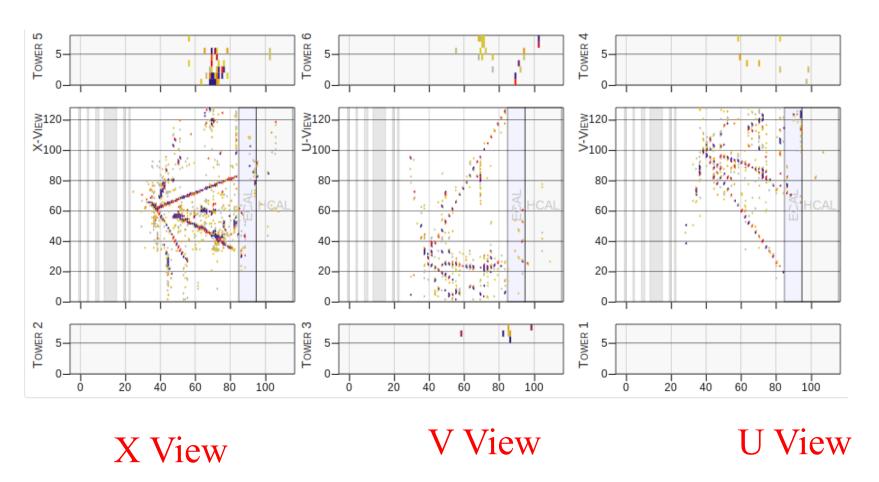
Note: this is a 2.5% drop in measured rock muons/POT for an increase of 50%. In fact, the proton/microsecond rate is 2 times higher for 33% of the spill. At least part of this inefficiency is due to DAQ deadtime during the spill We will upgrade the firmware to address this problem during the shutdown, details in a future AEM

5



Event Display





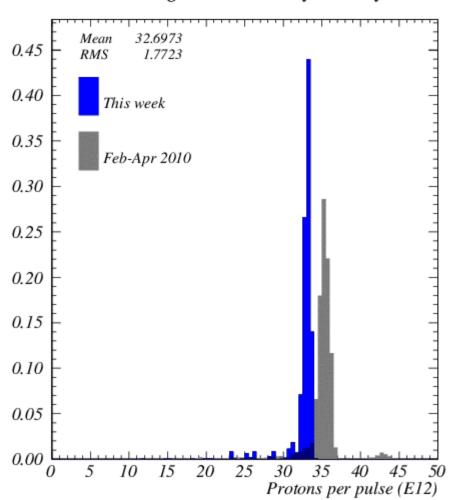
Tracker CC π^0 Event



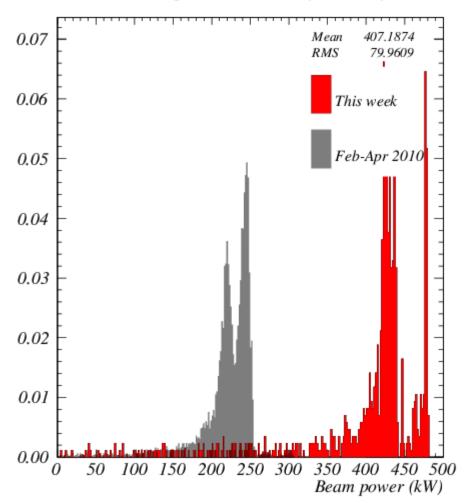
NuMI Beam Plots Apr 27-May 3, 2015







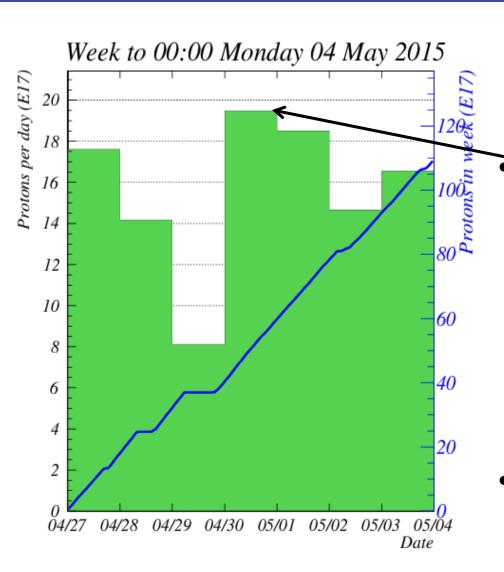
Week ending 00:00 Monday 04 May 2015





Protons for the Week





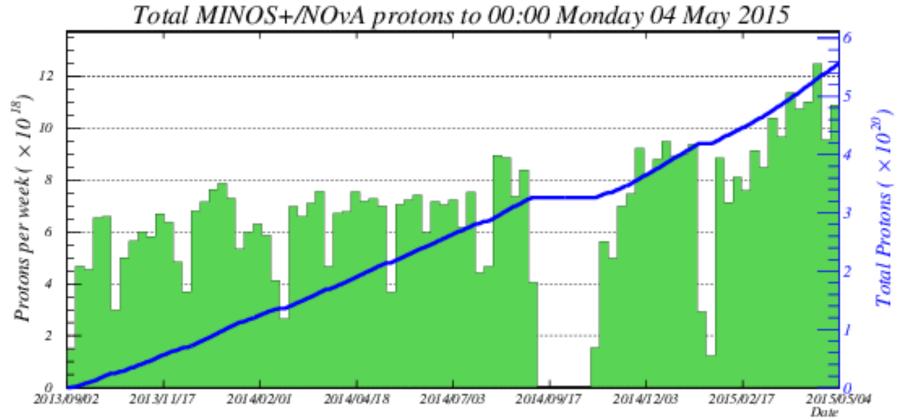
1.09×10¹⁹ POT Apr 27-May 3, 2015

- Best day on Apr 30 with 19.5×10¹⁷ POT.
 - This took place while the Switchyard 120 beam line was off & we were getting ~ 480 KW proton intensity.
- 2d best day on Apr 26 with 18.8×10¹⁷ POT.



Protons for ME Run





55.54 ×10¹⁹ POT - Sep 6, 2013 at 15:00 – May 3, 2015